IN THE SPECIFICATION:

Please replace paragraph [0064] with the following amended paragraph:

[0064] FIG. 8 is a diagram showing the output characteristic of the frequency comparator. In FIG. 8, an abscissa indicates the frequency error (FERR), and an ordinate indicates the output of the frequency comparator (FCMPOT).

In the frequency detection according to this method, <u>the gain of the frequency detection does not become constant with</u> respect to the frequency error, but becomes a convex curve which peaks near the frequency error of 7%. The gain is lowered when the frequency error increases.

It is necessary to prevent such reduction of the gain and realize stable high speed lock-in regardless of the frequency error.